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(54) APPARATUS FOR GLOSSING PAPER SURFACE

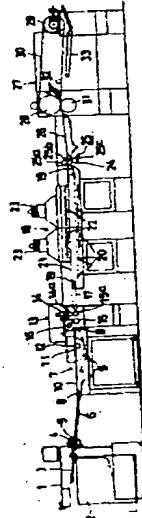
(57) Abstract:

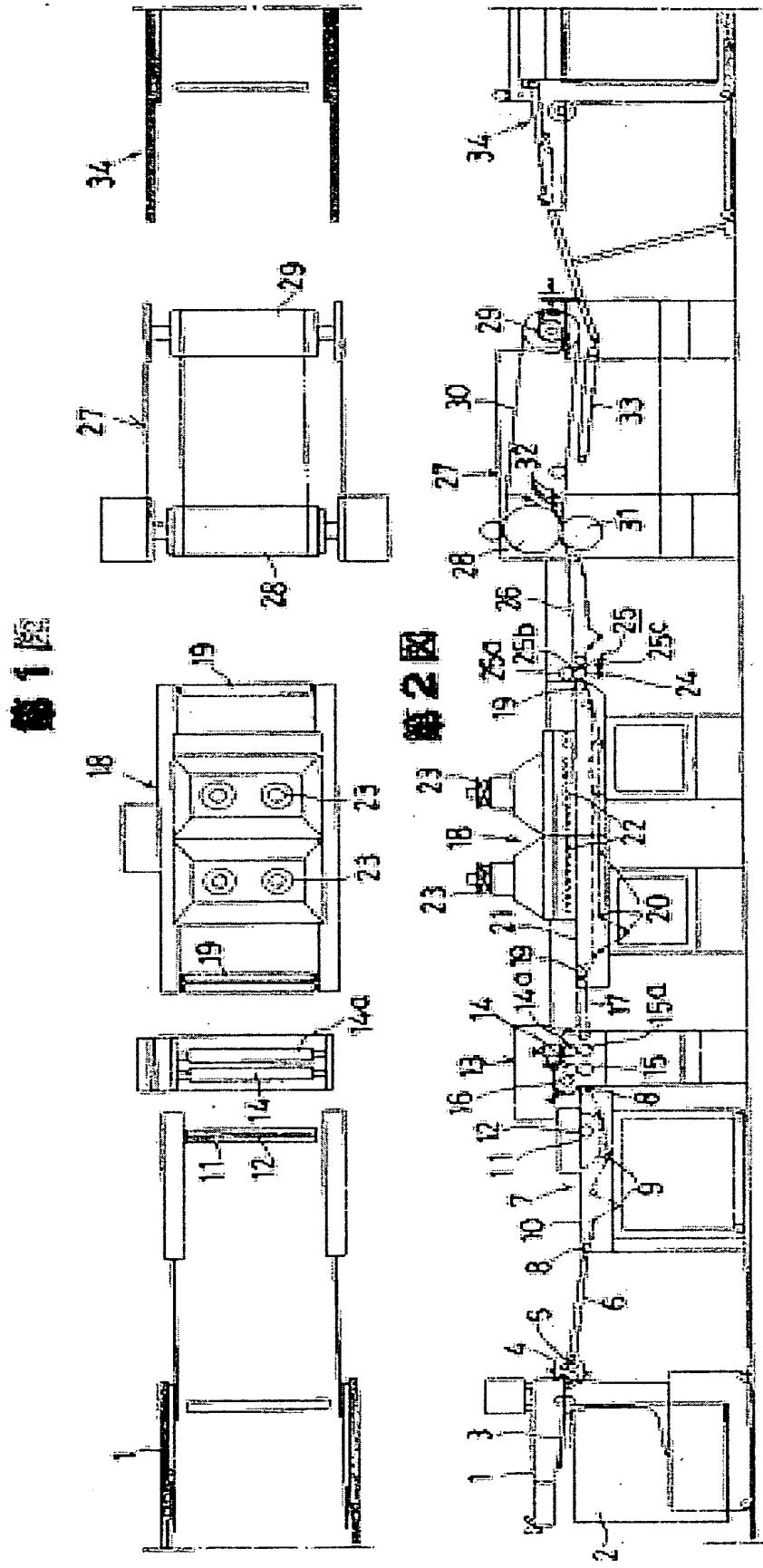
PURPOSE: To make it possible to perform glossing treatment without generating gloss disappearance and cracks by high speed consistent work, by assembling a powder removing apparatus and a corona discharge treatment apparatus between a paper feed apparatus and a coater apparatus while assembling a press dampening apparatus between a drying apparatus and an endless apparatus.

CONSTITUTION: A sheet 3 fed from a paper feed apparatus 1 is passed between a pair of brushing rolls 5, 5 of a powder removing apparatus 4 to remove the powder adhered to the front and back surfaces thereof. Subsequently, the treated sheet is subjected to corona discharge treatment in a corona discharge treatment apparatus 7. By this process, the bleeding due to the additive such as a dryer or wax in printing ink is performed while the surface inactive state of the undried printing ink is further activated to enhance the wettability and the close adhesiveness of the sheet surface and to bring the same to a state easily susceptible to glossing treatment. A glossing paint is applied to the sheet surface in a coater apparatus 13 while the sheet 3 dried in a hot air infrared dryer 18 receives proper dampening and pressing in a press

dampening apparatus 25 to impart flexibility to the sheet 3. In the next step, the sheet 3 is heated in an endless apparatus 27 to gloss the glossing paint coated surface.

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27 heating apparatus

1 paper feed apparatus

5 brushing rolls

4 powder removing apparatus

7 corona discharge treatment app.

13 coater apparatus

18 hot air infrared dryer

25 mesh drum ravine apparatus